

AMALIE XLO Ultimate Full Synthetic Molybdenum Fortified CK-4/SN 5W-40

(September 2017 edition)

AMALIE XLO Full Synthetic Molybdenum Fortified CK-4/SN 5W-40 is full synthetic high-performance diesel engine oil utilizing the latest in additive technology to offer the ultimate protection of your engine. Designed to meet or exceed the latest OEM and API CK-4 requirements, it is also backwards compatible to previous OEM and API specifications such as CJ-4, CI-4, CI-4+, and CH-4. Amalie CK-4/SN 5W-40 carries the API SN classification for use in gasoline engines and is an excellent choice for operators with mixed fleets. This oil is specially designed to protect EGR/Low-Emission Diesel Engines while maximizing the durability of Diesel Particulate Filters (DPF's).

AMALIE XLO Full Synthetic Molybdenum Fortified CK-4/SN 5W-40 is recommended for use in a wide range of heavy-duty applications and operating environments found on-and off-highway, including engines operating under heavy loads. It is formulated for extended service/extended drain when operated under typical operating conditions. Amalie CK-4/SN 5W-40 offers improved TBN retention, lower oil consumption, greater wear protection, oxidation stability, excellent shear stability, and reduced high temperature deposits.

Benefits:

- High soot handling
- Improved sludge control
- Excellent protection for metal components from rust, corrosion and wear
- Superior oxidation stability
- Shear stable formulation
- One oil for mixed Fleets
- Exceptional oil consumption control
- Lasting TBN retention
- Excellent Low Temperature Pumpability

Typical Physical and Chemical Properties

Viscosity Grade.....	5W-40
Kinematic Viscosity @100°C, cSt.....	14.40
Kinematic Viscosity @40°C, cSt.....	88.70
Viscosity Index.....	170
Flash Point, °C (°F).....	220(428)
Pour Point, °C (°F).....	-42(-43.6)
Density, S.G.....	0.861
Sulfated Ash, Wt%.....	1.0
TBN, mgKOH/g.....	11.0

Typical values are listed. Variations not affecting the performance of this fluid may occur during production however; these variations will not fall outside of set specification parameters.

The data presented herein are believed to be accurate; however, Amalie Oil Company shall not be liable for its content and makes no warranty with respect thereto. Amalie Oil Co. • 1601 McCloskey Blvd. • Tampa, FL 33605, U.S.A. • Telephone 813 248-1988 • Fax 813 248-1488 • info@amalie.com • www.amalie.com

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Approvals and Recommendations

SPECIFICATIONS	Amalie 5W-40
ACEA:	
E9, E7	√
API:	
CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4	√
SN, SM, SL, SJ	√
Caterpillar	
ECF-3, ECF-2	√
Chrysler	
MS-10902	√
Cummins:	
CES 20086, CES 20081	√
Daimler (MB)	
MB 228.31	√
Detroit Diesel	
DFS 93K222, 93K218	√
Deutz	
DQC III-10 LA	√
Ford	
WSS M2C171-F1	√
Global	
DHD-1	√
JASO	
DH-2, DH-1	√
Mack	
EOS-4.5, EO-O Premium Plus, EO-N	√
MAN	
M 3575	√
Mil-PRF	
2104 Rev. H	√
MTU	
2.1	√
Navistar	
TSI-99-12	√
Renault	
RLD-4, RLD-3	√
Volvo	
VDS-4.5, VDS-4, VDS 3	√

Please consult Amalie Technical Services or your local representative for a full listing of applications.